ABSTRACT OF THE DISCLOSURE

A cathode ray tube with a panel includes an inside surface having a designated curvature; a central portion having a transmission rate of 45-75%; and an outside surface being substantially flat with a flatness ratio (F) satisfying a mathematical formula of $F = \dfrac{Ro}{Sd \times 1.767}$, where Ro denotes a diagonal curvature radius of the outside surface, Sd denotes a diagonal length of an effective surface of the panel, and the flatness ratio (F) of the outside surface is greater than 17. The dimensions of the panel are such that the thickness at the central portion of the panel (CFT), the thickness of a vertical axis end (Tv), and the thickness of a diagonal end (Td) satisfy conditions of 1.4 < Td/CFT < 2.2, and 0.85 < Tv/Td < 1.0.